Amendments to the Specification

Please replace paragraph [0014] with the following amended paragraph:

[0014] Figure 1 is an axial elevation view, partly cut away and partly in section, of a first embodiment of an ion exchange cartridge according to the invention.

After paragraph [0014], insert the following new paragraph:

[0014.1] Figure 1A is a an axial elevation view, partly cut away, of the ion exchange cartridge shown in Figure 1.

Please replace paragraph [0015] with the following amended paragraph:

[0015] Figure 2 is an enlarged view of detail [[A]] FIG. 2 of Figure 1.

Please replace paragraph [0018] with the following amended paragraph:

[0018] Referring to the drawings, and initially to Figures 1, 1A, and 2, one embodiment of an ion exchange cartridge according to the present invention is indicated generally by the reference numeral 10. The cartridge 10 comprises an inner cage 12 and an outer cage 14 in the form of coaxial tubes. The inner cage 12 is of mesh or perforated construction, with holes sufficiently small to prevent beads of ion exchange resin 16, with which the cartridge 10 is filled, from passing into the inner cage. Alternately, a sleeve 17 of material may be disposed about the inner cage. The sleeve is permeable to fluid so as to permit a fluid to pass from inside the inner cage to inside the liner. If a sleeve is used, the sleeve is preferably made from spunbonded continuous filament polyester material. The material may then be 15 mils (380 µm) thick, with a basis weight of 3 oz / sq. yd. (100 g/m2) and a Frazier airflow of 192 cfm (airflow of 192 cubic feet per square foot per minute at a differential pressure of 0.5 inch water (58.5 m/s at 124.5 Pa)).

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Please replace paragraph [0024] with the following amended paragraph:

[0024] The liner 32 is preferably made from a tubular knit sleeve of polyester material. The tubular knit structure is highly beneficial since the absence of an axial seam removes a major point of weakness. The knit sleeve also has sufficient elasticity such that, when the cartridge is initially filled, the sleeve can contain the ion exchange resin 16 in the region adjacent to the inner cage 12. However, during use, as the ion exchange resin absorbs acid and water and begins to expand, the liner 32 will stretch rather than tear. The liner 32 thus allows the resin to expand towards the outer cage 14, into the space 36, while still retaining it in a continuous and fairly even bed over the length and circumference of the cartridge 10. In one preferred embodiment, the liner is made from the 150/50 200/48 #5 knit BEANE BAG ™ material supplied by C S & S Filtration, of Chattanooga, TN, under the item number 2K0510.5-045. This material has a weight of 13.92 oz/yd^2, a tensile strength of 76.5 lbf in the machine direction and 52.5 lbf across the machine direction, an elongation before failure of 5.109" for an initial sample size of 3" between jaws (170.3%) in the machine direction and 4.494" for an initial sample size of 3" between jaws (149.8%) across the machine direction. The material is permeable to fluid, having ~~has~~ a Frazier airflow resistance of 116.3, and has a Mullens burst strength of at least 60.0 psi.

Please replace paragraph [0033] with the following amended paragraph:

[0033] As with the embodiment shown in Figures 1 and 2, instead of using a retaining band, the liner may be formed with different or denser knitting in the region where the retaining band is shown in ~~Figire~~ Figure 3.

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